

SMIRNOV, M.V.

Brigades of communist labor of the Kazan Railroad. Avtom., telem.  
i sviaz' 4 no.10:22-23 0 '60. (MIRA 13:10)

1. Nachal'nik sluzhby signalizatsii i avyazi Kazanskoy dorogi.  
(Railroads--Signaling)

KUZNETSOV, S.T., kand.tekhn.nauk; SMIRNOV, M.V., kand.tekhn.nauk

Results of tests of the M-87 support in Kuznetsk Basin mines and a study  
of its principal features on models. [Trudy] VNIMI no.45:263-281 '62.  
(MIRA 16:4)

(Mine timbering--Testing)

SMIRNOV, M.V.

"Safety measures in repair and assembly work in the machinery industry" by M.I.Korsakov. Reviewed by M.V.Smirnov. Mashinostroitel' (MIRA 16:5)  
no.4:47 Ap '63.'  
(Machinery industry—Safety regulations) (Korsakov, M.I.)

KOZLOV, Svyatoslav Nikolayevich; SMIRNOV, Mikhail Vasil'yevich;  
BAZ', Ivan Stepanovich; SIDOROV, Petr Aleksandrovich;  
BEZDENEZHNYKH, P.T., red.; SRIENIS, N.V., tekhn.red.

[Soviet military science] O sovetskoi voennoi nauke. 2.,  
perer. i dop. izd. Moskva, Voenizdat, 1964. 403 p.  
(MIRA 17:3)

L 55932-65 EWT(1)/EWG(v)/T-2 Pe-5  
ACCESSION NR: AP5016684

UR/0084/65/000/007/0028/0028

AUTHOR: Grishanov, N. (Engineer); Kalashnik, V. (Engineer); Smirnov, N. (Engineer)

TITLE: Climate in an aircraft

SOURCE: Grazhdanskaya aviatsiya, no. 7, 1965, 28

TOPIC TAGS: passenger aircraft, aircraft air conditioner, aircraft cabin equipment

ABSTRACT: A greatly improved air conditioning system has been developed for channeling air directly into the passenger compartments of the AN-10 passenger aircraft, bypassing the panel ducts. The panel system is switched on only after a given temperature is attained. In this system, hot compressed air from the compressors of all four engines passes through stopcocks, pressure limiters, return valves, and into the common wing duct. The air then moves to the cooling units consisting of a radiator and two simultaneously operating turbocooling units located in the left fairing of the undercarriage. From these units, the air passes along five ducts into the cockpit, to the panel ducts of the three passenger compartments, and to an air-distribution duct located in the upper portion of the compartments. Temperature in the compartments is maintained by mixing hot air into the basic cooled-air

Card 1/2

SMIRNOV, N.; SAVCHENKO, A., inzh.; OVECHKIN, Yu., inzh.

Special features in the use of transistors. Radio no. 2:53-56 F  
(MIRA 18:4)  
185.

NR: AP6016736

4

maintenance of gliders and engines are discussed and periods of flights between repairs are indicated. New, revised regulations are also used for maintenance of Ya-12, Li-2, An-2 and Il-14 aircraft. The aircraft "Morava" is also covered by these regulations.

SUB CODE: 01/ SUBM DATE: None

Card

2/2 1/5

SMIRNOV, N.A., inzh.

Effect of high hydrostatic pressure on the transformation of  
martensite to austenite in iron-nickel alloys. Izv.vys.ucheb.  
zav.; chern.met. 2 no.10:109-112 0 '59. (MIRA 13:3)

1. Zaporozhskiy mashinostroitel'nyy institut. Rekomendovano  
kafedroy metallovedeniya Zaporozhskogo mashinostroitel'nogo  
instituta.

(Iron-nickel alloys--Metallography)  
(Pressure)



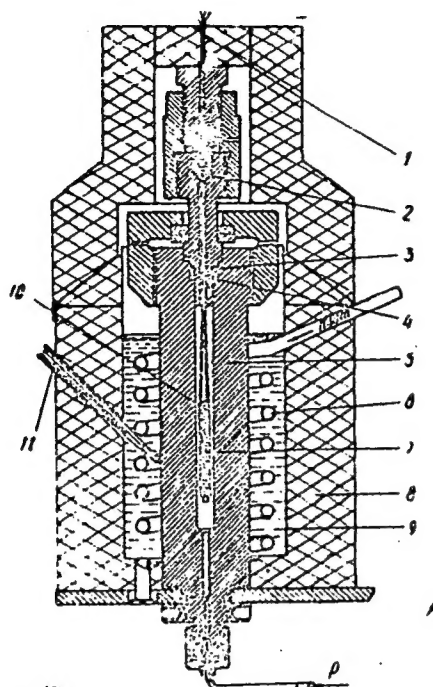
The Effect of High Hydrostatic Pressure on the  
Transformation of Austenite to Martensite in  
Iron-Nickel Alloy

77143

SOV/148-59-9-13/22

by heating to  $1,000^{\circ}$  C in a hydrogen flow with holding for 18 hr, double-wound on a serpentine spool. After winding the spool was heated at vacuum to  $1,000^{\circ}$  C and held for 25 min to remove the effects of plastic deformation and the remaining hydrogen, after which the wire was ready for testing. For determining the temperature at which austenite transformation begins, the measuring of the electric resistance was chosen, since the transformation of austenite to martensite consists of a rearrangement of face-centered austenite lattice to body-centered martensite lattice, which is accompanied by a noticeable decrease in electric resistance. Changes in electric resistance were measured with an accuracy of 0.05 ohm and a pressure of  $+15 \text{ kg/cm}^2$  per  $1,000 \text{ kg/cm}^2$  of pressure. Temperature was measured by iron-constantan thermocouple. The high-pressure chamber used in the investigation is shown in Fig. 1. The pressure was created either by multiplier or by high-pressure hydraulic compressor designed by L. F. Vereshchagin. In view of the fact

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77143 SOV/148-59-9-13/22

Fig. 1. High-pressure chamber for investigation of phase transformations at low temperatures: (1) electric leads; (2) ebonite cone; (3, 4) steel and babbitt sealing rings; (5) body; (6) cooling coil; (7) spool; (8) thermal insulation; (9) gasoline; (10) thermocouple; (11) thermometer.

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The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy

77143  
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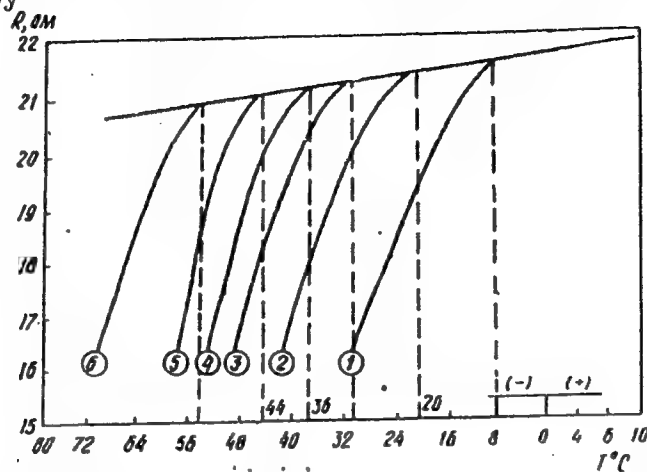


Fig. 3. Shifting of temperatures at which transformation of austenite to martensite begins.

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The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy 77143  
SOV/148-59-9-13/22

G. Kulin, Journal of Metals, June, 1952.

ASSOCIATION: Zaporozh'ye Machine Building Institute (Zaporozhskiy mashinostroitel'nyy institut)

SUBMITTED: April 27, 1959

Card 8/8

*Smirnov, N.A.*

USSR/General Problems. Methodology, History, Scientific Institutions and A  
Conferences, Instruction, Questions Concerning Bibliography and  
Scientific Documentation.

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3460.

Author : N.A. Smirnov, A.S. Yablonskiy, V.A. Fefilov, Z.N. Pukhovitskaya,  
Ya. M. Koldobskiy.

Inst :

Title : Development of Leningrad Bread Baking Industry.

Orig Pub: in symposium: Pishchevaya prom-st', L., Sel'khozgiz, 1957,  
23-41.

Abstract: No abstract.

Card : 1/1

-11-

SMIRNOV, N.A.

USSR /Chemical Technology. Chemical Products  
and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32181

Author : Ivanov N. Ye., Kheruntseva Kh. A., Smirnov N.A.

Title : Boiling of Toweling Fabric with Hydrogen  
Peroxide

Orig Pub: Tekstil'naya prom-st', 1956, No 4, 50-51

Abstract: Bleaching of cotton fabrics with  $H_2O_2$  has considerable advantages over the alkaline-hypochlorite method of bleaching. In this procedure the processes of desizing, boiling and bleaching are carried out in one bath. Compositions and

Card 1/3

USSR /Chemical Technology. Chemical Products  
and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32181

served on using the alkaline-hypochlorite method of bleaching. It was ascertained that direct and basic dyestuffs are not decomposed under conditions of peroxide bleaching while the acid dyes are completely discharged. Therefore it is recommended to use only acid dyes for marking coarse linen.

Card 3/3

CHEREMUSHKIN, S.D., kand. sel'khoz. nauk; KLOPOTOVSKIY, A.P., kand.  
sel'khoz. nauk; MARKOVA, M.V., kand. sel'khoz. nauk;  
SMIRNOV, N.A., red.

[Basic principles of the economic valuation of land] Osnovnye  
printsipy ekonomicheskoi otsenki zemli; materialy nauchno-  
issledovatel'skikh rabot. Moskva, Vses. nauchno-issl. in-t  
ekon. sel'.khoz. 1962. 79 p. (MIRA 16:1)

1. Rukovoditel' otдела ekonomicheskoy otsenki zemel'nykh ugodiy  
Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'-  
skogo khozyaystva (for Cheremushkin). 2. Otdel ekonomicheskoy  
otsenki zemel'nykh ugodiy Vsesoyuznogo nauchno-issledovatel'skogo  
instituta ekonomiki sel'skogo khozyaystva (for Klopotovskiy,  
Markova). (Moscow Province--Farms--Valuation)  
(Moscow Province--Soils--Classification)



PENTYUK, M.V., kand. sel'khoz. nauk; UDOVENKO, Ye.Ya., otv. red.;  
KNYAZEV, N.K., red.; TASHCHEV, Ye.N., red.; SVYADOSTS, Yu.I.,  
red.; SMIRNOV, N.A., red.

[Problems in increasing the number of sheep and the production  
of mutton] Voprosy uvelicheniia pogolov'ia ovets i proizvodstva  
baraniny. Moskva, Vses. nauchno-issl. in-t ekonomiki sel'.  
khoz., 1962. 93 p. (MIRA 15:11)

(Sheep)

ZOTOV, A.; YAKUBOV, B.; SMIRNOV, N.; CHABROV, G.; KOCHEROV, V.,  
red.; BAKHTIYAROV, A., tekhn. red.

[Cities of the Fergana Valley; concise reference book]  
Goroda Ferganskoi doliny; kratkii spravochnik. Perer.  
2 izd. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1963. 157 p.  
(MIRA 16:11)

(Fergana--Cities and towns)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV,  
V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S. [deceased];  
MELAMEDOV, N.K.; SERGEYEV, V.V.: Prinimali uchastiye:  
AMMOISOV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk,  
dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A.,  
prof., red.; DNEPROVA, N.N., red.izd-va; PUL'KINA, Ye.A.,  
tekhn. red.

[Technology of building] Tekhnologiya stroitel'nogo proiz-  
vodstva. [By] N.A.Smirnov i dr. Leningrad, Gosstroizdat,  
1963. 435 p. (MIRA 17:2)

SMIRNOV, N.A., irzh

New developments in the graph analysis method of determining the size of displacements in aligning curves.  
Transp. stroi. 12 no.1:39-40 Ja '62. (MIRA 17:2)

SMIRNOV, N.A. (Leningrad); SMOLOV, V.B. (Leningrad)

Concerning a method for the construction of voltage-to-code  
integral-differential code converters. Avtom. i telem. 25  
no.2:250-261 F '64. (MIRA 17:4)

ACC NR: AT6029240

SOURCE CODE: UR/0000/66/000/000/0270/0270.

AUTHOR: Gul'ko, F. B.; Smirnov, N. A.

ORG: none

TITLE: Use of prediction methods for controlling nuclear reactor start-up

SOURCE: Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematicheskogo modelirovaniya. 4th, Kiev, 1964. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); trudy konferentsii. Moscow, Izd-vo Nauka, 1966, 270-279

TOPIC TAGS: nuclear reactor operation, nuclear reactor, nuclear reactor accident, computer simulation, control simulator

ABSTRACT: The essence of prediction methods is that the manipulated variable (or control input) is not formed on the basis of actual values of the phase coordinates of the controlled object but on the basis of their predicted values. The predicted values are calculated by a prediction device which is a high-speed electron simulator of the controlled plant with an iterative solution operating in conjunction with a transponder. The investigation covered the start-up processes of a reactor for physical and technological research and of a thermal reactor, as well as the equipment for electronic simulation. For both reactors the problem was reduced to that of producing the desired neutron rate levels or the desired temperature. Where these levels are about to be ex-

Card 1/2

SMIRNOV, N.A., ipzh.

Experimental investigation of the variable speed gear of the chassis  
of the Sk-3 self-propelled combine. Trudy MIMESKH 10:133-148 '59.

(MIRA 13:12)

(Combines (Agricultural machinery))  
(Gearing)

SMIRNOV, N.A., inzh.

Investigation the optimum traction force of doubled V-belt type  
infinitely variable transmissions. Trudy MIMESKH 10:149-164 '59.  
(MIRA 13:12)

(Gearing) (Belts and belting)



SMIRNOV, N.A., inzh.

Theory and calculation of the V-belt type variable speed gear. Trudy  
MIMESKH 10:165-183 '59. (MIRA 13:12)  
(Gearing) (Belts and belting)

SMIRNOV, N. A., CAND TECH SCI, <sup>Study</sup> ~~INVESTIGATION~~ OF THE TWIN  
ALTERNATOR <sup>self-propelled</sup> V-BELT XXXXXXXX OF ~~POWER-DRIVEN~~ COMBINES." MOSCOW, 1960.  
MOSCOW ORDER OF LENIN AGR ACAD IM K. A. TIMIRYAZEV). (KL,  
2-61, 212).

-180-

BALANDIN, Andrey Andreyevich; SEIRNOV, N.A., prof., red.;  
PANIVAN, P.S., red. izd-va; BELOGUROVA, I.A., tekhn.  
red.

[Fundamentals of fire safety at a construction site] Os-  
novy pozharnoi bezopasnosti na stroitel'no-montazhnoi  
ploshchadke. Leningrad, 1962. 28 p. (Leningrad. dom  
nauchno-tekhn. propagandy. Bibliotekha stroitelia po  
tekhnike bezopasnosti, no.15) (MIRA 16:12)  
(Construction industry--Fires and fire prevention)

VINOGRADOV, Yevgeniy Grigor'yevich, kand. tekhn. nauk; SMIRNOV, N.A.,  
prof., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A.,  
tekhn. red.

[Safety measures in mechanical processing of wood] Tekhnika  
bezopasnosti pri mekhanicheskoi obrabotke drevesiny. Pod  
obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-  
tekhn. propagandy, 1962. 37 p. (Bibliotekha stroitel'ia po  
tekhnike bezopasnosti, no.4) (MIRA 16:3)  
(Woodworking machinery--Safety appliances)

66201

SOV/146-58-6-1/16

~~8(3)~~ 16.9500  
AUTHORS:

Smolov, V.B., Candidate of Technical Sciences, Smirnov, N.A., Assistant, and Nazarov, I.A., Candidate of Technical Sciences

TITLE:

Application of Rotating Transformers (VT) as Functional Transformers of Approximate Action

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1958, Nr 6, pp 3-13 (USSR)

ABSTRACT:

The rotating transformers (VT) are typical induction components of electromechanical modulating plants, and serve for the realization of equations of the type:

$$U_{21} = K_{T1} U_{11} \cos \alpha - K_{T2} U_{12} \sin \alpha$$

$$U_{22} = K_{T2} U_{11} \sin \alpha + K_{T4} U_{12} \cos \alpha, \text{ where } K_{T1}, K_{T2}, K_{T3},$$

$K_{T4}$  are transformation coefficients. In accordance

with the above formulae, the VT can be used for the following operations: a) Turning of axes of a rect-

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SOV/146-58-6-1/16

Application of Rotating Transformers (VT) as Functional Transformers of Approximate Action

angular coordinates system at an angle  $\alpha$ ; b) computing the tension values  $U_{11}$  and  $U_{12}$  at  $\alpha = 45^\circ = \text{const.}$ ; c) scanning of vector  $R(U_{11}, U_{12})$  into its components  $U_{21}$  and  $U_{22}$  in a rectangular coordinates system; d) building of vector  $R(U_{21}, U_{22})$  in a rectangular coordinates system; e) multiplying the value  $U_{11}$  by a constant multiplier. The number of operations which can be performed with the aid of VT will be considerably increased if special connection layouts will be used. The layout FP (Figure 2) realizes the trigonometric polynomial

$$z(x) = \sum_{k=0}^n A_k x^k (0 \leq x \leq x_{\max})$$

In using electronic numerical computation devices with different control layouts, it is often an advantage to have functional transformers which transform the incoming continuous values into discrete ones. These transformers, unlike linear transformers, realize the

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SOV/146-58-6-1/16

Application of Rotating Transformers (VT) as Functional Transformers  
of Approximate Action

transformation as  $N = f(\varphi)$

$N = f(U_{Bx})$

The analyzed layout of VT in a capacity of FP of approximate action permits enlarging of the field in which the standard induction elements of computation designs of continuous or discrete action are used. There are 1 table, 4 graphs, 8 schematic diagrams and 2 Soviet references.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute imeni V.I. Ul'yanov (Lenin))

SUBMITTED: September 6, 1958

Card 3/3

*SMIRNOV, N.A.*

91-58-7-16/27

AUTHOR: Smirnov, N.A., Technician

TITLE: Exchange of Experience (Obmen opytom). Fault Localization in Power Transmission Cables by Means of a Compass (Opre-deleniye povrezhdeniy v silovyykh kabelyakh pri pomoshchi kompasa).

PERIODICAL: Energetik, 1958, Nr 7, pp 31-32 (USSR).

ABSTRACT: The author of this article suggests utilizing the compass for fault localization, if special equipment is not available. He describes the localization of breakdowns between the phases of a 250 m long cable consisting of 3 pieces with sections of 150 and 120 sq mm. Two cores of this cable were welded together by the breakdown. At one cable side a 12 v automobile storage battery and a knife switch, in series with a 0.2 ohm limiter resistance, were inserted into the circuit loop formed by the breakdown. Short pulses were transmitted by means of the knife switch at intervals of 2 to 3 seconds. Having established that the compass put on the cable shielding, responded to the impulses, a first hole of 400 x 400 was bored in the ground at the center of the cable run. The compass put on the cable shielding in

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91-58-7-16/27

Exchange of Experience. Fault Localization in Power Transmission Cables  
by Means of a Compass.

this hole did not deviate. This proved that the fault was located nearer to the substation and, by dividing each part of the cable successively into halves, by means of holes bored in the earth, the fault was rapidly located. The editor of this periodical states that this primitive method was applied because of lack of appropriate equipment. The nature of the fault described by the author would have permitted the application of the induction method, which would have located the fault with a 100 % accuracy without boring any holes. The editor recommends observing the special instructions for cable line service laid down by the Ministerstvo elektrostantsiy (Ministry of Electric Power Plants), Gosenergoizdat, 1954. There is 1 Soviet reference.

1. Transmission lines---Maintenance methods
2. Electric cables---Test methods
3. Compasses---Applications

Card 2/2

SPILKOV N A.

807/144-58-9-18/18

**AUTHOR:** Gikis, A. F., Candidate of Technical Sciences, Docent  
**TITLE:** Inter-University Scientific Conference on Electric Measuring Instruments and Technical Means of Automation (Mezhvuzovskaya nauchnaya konferentsiya po elektroiizeritel'nyy priboram i tekhnicheskim sredstvam avtomatiki)

**PERIODICAL:** Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika, 1958, Nr 9, pp 130-135 (USSR)

**ABSTRACT:** The conference was held at the Leningradskiy elektrotekhnicheskii institut imeni V. I. Ul'yanova (Lenina) (Leningrad Electro-technical Institute imeni V. I. Ul'yanov (Lenin)) on November 11-15, 1958. The representatives of eleven higher teaching establishments and three research institutes participated and a large number of specialists of various industrial undertakings were present.

Corresponding Member of the Ac.Sc. USSR Professor E. B. Karandeyev presented the paper "Application of semi-conductors for metering purposes".

Assistant G. N. Novopashenny presented the paper "Metering amplifiers with semi-conductor triodes".

Docent Ye. V. Novosel'tsev, Assistants N. A. Smirnov, Ye. Ye. Afanas'yev and Ye. P. Ugryumov (Leningrad

Electrotechnical Institute) presented the paper "Semi-conductor precision instrument for measuring the frequency by the method of counting impulses". The described instrument enables measuring the frequency of harmonic oscillations which occur once only; the frequency of the input oscillations is amplified 24 times and the error in measurement does not exceed  $2 \times 10^{-3}$ .

A number of papers were presented on measuring and producing instruments based on recently discovered physical phenomena.

26180  
S/044/61/000/006/019/019  
C111/C222

16.6800

AUTHORS: Nazarov, I.A., and Smirnov, N.A.

TITLE: On the calculation of trigonometric functions with  
electronic digital devices

PERIODICAL: Referativnyy zhurnal. Matematika, no.6, 1961, 43,  
abstract 6V 268. (Izv. Leningr. elektrotekh. in-ta, 1959,  
39, 148-152)

TEXT: The author describes an input device with the aid of which  
in a special-purpose computer an arbitrary argument can be reduced to  
a value being smaller than  $\pi/2$  or  $\pi/4$ . Then the argument is led to an  
arithmetic mechanism for calculating the Sine according to the well-  
known program.

[Abstracter's note: Complete translation.]

Card 1/1

NEVOSEL'TSEV, Ya.V. [deceased]; AFANAS'YEV, Ye.Ye.; SMIRNOV, N.A.;  
UGRYUMOV Ye.P.

Transistor instrument for high-precision measurements of frequencies.  
Izv.vys.ucheb.zav.; prib. 3 no.2:30-43 '60. (MIRA 14:4)

1. Leningradskiy elektrotekhnicheskiy institut imeni V.I.Ul'yanova  
(Lenina). Rekomendovana kafedroy schetno-reshayushchey tekhniki.  
(Frequency measurements)

9,7200

32968  
S/146/61/004/006/007/020  
D201/D30

AUTHORS: Smirnov, N. A., Smolov, V. B. and Ugryumov, Ye. P.

TITLE: Time-pulse transistorized multiplier-divider

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostro-  
yeniye, v. 4, no. 6, 1961, 47-56

TEXT: The authors describe compact transistorized time-pulse in-  
struments performing operations of the type of

$$V_{out} = K_1 \frac{V_1 V_2}{V_0} \quad (1)$$

where  $K_1$  is a constant with values of inputs  $V_1$ ,  $V_2$  and  $V_0$ , given  
by d.c. voltages with max. relative errors of 1%; the instruments  
have time constants of the order of 20/sec, and are meant to ope-  
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32968  
S/146/61/004/006/00-1020  
D201/D301

Time-pulse transistorized ...

rate at constant ambient temperatures ( $\approx +10^{\circ}\text{C}$  with respect to the set zero temperature). The instruments were designed at the Department of the Analogue Computer Techniques of the LETI im. V. I. Ul'yanov (Lenin) on the closed-loop system principle. A block diagram of the computer is given in Fig. 1. It consists of three main units (shown by dotted lines). Unit 1 - a pulse width modulator; 2 - pulse amplitude divider; 3 - a voltage difference amplifier. Operation of the circuit is briefly discussed and sources of errors are determined. The carrier frequencies lower the accuracy range was 2 - 5 kc/s. Higher frequencies lower the accuracy owing to increased pulse distortion. Emitter followers are used as buffer stages throughout. Requirements as to the integrating networks are stated to be non-critical which makes it possible to use passive RC-networks for this purpose. The d.c. amplifier is a three-stage balanced one with a cathode follower output, overall gain 1000, with series-connected complementary transistor stages. The requirements as to the characteristics of transistors for a multiplier-divider arrangement may be summarized as follows: a) High operating voltages; b) large  $\beta$ ; c) high  $f_{\beta}$ ; d) small  $I_{\text{off}}$ .

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Card 2/4

Card 3/4

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32968

S/146/61/004/006/007/020  
D201/D301

Time-pulse transistorized ...

SUBMITTED: November 9, 1960

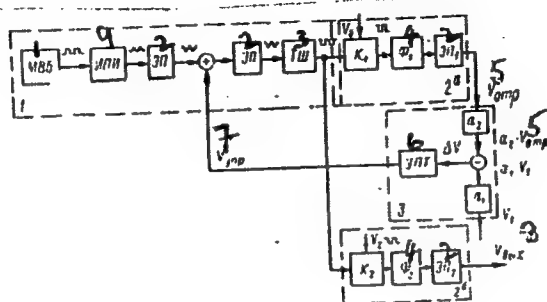


Fig. 1

Legend: 1 - multivibrator; 2 - emitter follower; 3 - Schmitt trigger; 4 - filter; 5 -  $V_{-ve}$ ; 6 - d.c. amplifier; 7 -  $V_{control}$ ; 8 -  $V_{out}$ ; 9 - right-angle impulse integrator

Card 4/4

TOPOLYANSKIY, Abram Borisovich, inzh.; SMIRNOV, N.A., prof., red.;  
PAPIYEV, V.R., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Safe use of electricity in construction and assembly work]  
Elektrobezopasnost' pri proizvodstve stroitel'no-montazhnykh  
rabot. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr.  
dom nauchno-tekhn. propagandy, 1962. 48 p. (Bibliotekha  
stroitelia po tekhnike bezopasnosti, no.3) (MIRA 16:5)  
(Electricity in building--Safety measures)



S/115/62/000/005/003/006  
E140/E435

AUTHORS: Smirnov, N.A., Smolov, V.B., Fomichev, V.S.,  
Chernyavskiy, Ye.A.

TITLE: Transistorized digital-analogue converter

PERIODICAL: Izmeritel'naya tekhnika, no.5, 1962, 29-32

TEXT: A digital-analogue converter developed at the LETI im. V.I.Ul'yanova (Lenina) in 1960-1961 is described. The system operates at frequencies not exceeding 50 kc/s, in the temperature range  $\pm 60^{\circ}\text{C}$ , with a precision of 0.01%. The full-scale voltage into loads of 10 to 250 k $\Omega$  is of the order of 0.020 V. The relatively high precision is obtained by the use of saturated transistor switches in a balanced configuration (Fig.6) and a divided resistance summation network (Fig.5). The power supplies are stabilized to 0.05%; wire-wound resistors of the same tolerance are used. There are 7 figures and 1 table.

Card 1/2

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S/103/62/023/006/010/012  
D230/D308

AUTHORS: Smirnov, N.A., Smolov, V.B. and Fomichev, V.S. (Leningrad)

TITLE: Bridge electronic digital-to-analog functional converter

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 6, 1962, 802-817

TEXT: The authors deal with bridge digital-to-analog computers suitable for functional processing of digital data in accordance with the relations  $N_z = F(N_x)$  and  $N_z = \Phi(N_x, N_y)$ , where  $N_x$ ,  $N_y$  - input 'informing' digital data;  $N_z$  - output 'controlling' digital data. Both the theoretical and practical work were performed in the Kafedra vychislitel'noy tekhniki LETI im. V.I. Ul'yanova (Lenina) (Department of Computer Engineering LETI im. V.I. Ulyanov (Lenin)). In the case of transition from the digital output data to continuous data, rheostats or potential controlling sources should be connected into the corresponding arm of the bridge digital-to-analog computers. Card 1/2

On thermal conductivity of the system of solid solutions PbTe-PbS.  
Ye. D. Devyatkova, V. V. Tikhonov, N. A. Smirnov.

Change of the electrical properties of PbSe, PbTe, and PbS under  
close pressure. A. D. Averkin, A. A. Andreyev, I. G. Dombrovskaya,  
B. Ya. Moyses, E. G. Nensberg.

Report presented at the 3rd National Conference on Semiconductor Compounds,  
Kishinev, 16-21 Sept 1963

L 11599-63

EWI(7)/FCC(w)/BDS ASD/ESD-3/APGC/SSD Pg-4/Pk-4/Po-4/  
Pg-4 GG/IJP(C)

ACCESSION NR: AP3001370

S/0144/63/000/005/0597/0604

76

AUTHOR: Smirnov, N. A.; Smolov, V. B.; Fomichev, V. S.; Chernyavskiy, Ye. A.

TITLE: "Number-angle" decoder with intermediate conversion

SOURCE: IVUZ. Elektromekhanika, no. 5, 1963, 597-604

TOPIC TAGS: digital decoder, binary decoder

ABSTRACT: A simplified circuit is proposed for the decoding of binary-coded shaft rotation data, for the case where the angular resolution can be relatively low (8-11 bits). The design uses an intermediate conversion whereby the digital input is in effect converted to conductance and the variation in conductance controls the a-c voltage to the output motor. The basic operation is as follows: A double-ended a-c reference voltage with grounded center tap is connected across a parallel bank of transistor pairs. Each pair has a common emitter and collectors connected to opposite ends of the a-c bus. Each pair also represents one digital order. In a given pair one or the other transistor is switched on depending on whether the total input digital command has a "positive" or

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ACCESSION NR: AP3001370

0

"negative" sense of angular rotation; thus the a-c current which is switched on has a forward or reverse phase sense. The sum of switched currents flows through a precision summing resistor, developing the control voltage for the output motor. The "positive" or "negative" condition is determined by the state of the highest order digit in the input code. Feedback is provided by a 20-turn potentiometer driven from the output shaft. An experimental model was built using standard parts for which a schematic is given including component values for the output a-c amplifier preceding the motor. Test results show that conversion error with a 10-digit code is about 0.1%, maintainable within a range of -50 to +60C. Reliability and the absence of reactive elements are cited as further advantages of the design. Orig. art. has: 3 tables, 5 figures, and 6 formulas.

ASSOCIATION: none

SUBMITTED: 19Jul62

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: CP, CO

NO REF SOV: 002

OTHER: 000

ch/ar  
Card 2/2

SMIRNOV, N.A.; SMOLOV, V.B.

A good manual on digital computers. Priborostroenie no.9:  
52 S '63. (MIRA 16:9)

1. Leningradskiy elektrotekhnicheskii institut.  
(Electronic digital computers)

L 17912-63  
Pg-4 GG

EWI(d)/FCC(w)/BDS

ASP/ESD-3/APGC/IJP(G)

Pg-4/Pk-4/Po-4

ACCESSION NR: AP3005678

S/0146/63/006/004/0054/0062

AUTHOR: Smirnov, N. A.; Smolov, V. B.; Fomichev, V. S.;  
Chernyavskiy, Ye. A.

160  
TITLE: Universal voltage-to-digital converter for d-c and a-c control systems

SOURCE: IVUZ. Priborostroyeniye, v. 6, no. 4, 1963, 54-62

TOPIC TAGS: code converter, volts-to-digits converter, control system, analog-to-digital converter, encoder

ABSTRACT: Results are reported of developing a universal voltage-binary-code converter intended for conveying input information to a digital computer from d-c and a-c sensors; the latter may have any frequency and phase. The compensation principle is used for the encoding method, the input voltage being balanced against a feedback voltage which is obtained from decoding a selected code in the register. The direction of every balancing step is determined by repeated tests

Card 1/2

L 17912-63

ACCESSION NR: AP3005678

at the half-cycle of the input voltage. A circuit diagram is presented and discussed of an encoder capable of encoding d-c voltages, slow-varying voltages, and 400-cps amplitude voltages. It is intended for a special-purpose digital computer. Orig. art. has: 5 figures and 6 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Lenina  
(Leningrad Electrotechnical Institute)

SUBMITTED: 07Jan63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: CP

NO REF SOV: 003

OTHER: 000

Card 2/2



SMIRNOV, Nikolay Alekseyevich, starshiy prepodavatel'; SMOLOV, Vladimir Borisovich, kand.tekhn.nauk, dotsent; FOMICHEV, Vladimir Stepanovich, assistant; CHERNYAVSKIY, Yevgeniy Aleksandrovich, kand.tekhn.nauk

Decoding "number-angle" converter with intermediate transformation.  
Izv. vys. ucheb. zav.; elektromekh. 6 no.5:597-604 '63.  
(MIRA 16:9)

1. Kafedra vychislitel'noy tekhniki Leningradskogo elektrotekhnicheskogo instituta.

(Electronic computers)

AM1037984

BOOK EXPLOITATION

S/

Smolov, Vladimir Borisovich; Lebedev, Andrey Nikolayevich; Sapozhkov, Konstantin Andreyevich; Dubinin, Yakov Ivanovich; Smirnov, Nikolay Anisimovich; Bodunov, Vasilii Pavlovich; Ugryumov, YEvgeniy Pavlovich; YAtsenko, Vladimir Pavlovich

Analog computers (Vy\*chislitel'ny\*ye mashiny\* neprery\*vnogo deystviya), Moscow, "Vy\*sshaya shkola", 1964, 552 p. illus., biblio. 23,000 copies printed. Textbook for university students.

TOPIC TAGS: analog computer, automation, computer engineering

TABLE OF CONTENTS [abridged]:

Introduction -- 5

Ch. I. Summing calculating assemblies -- 21

Ch. II. Specialized functional transformers -- 52

Ch. III. Universal functional transformers -- 74

Ch. IV. Integrating and differentiating assemblies -- 166

Ch. V. Multiplication and division assemblies -- 261

Ch. VI. Cipher-analog computers (TsAVU) -- 330

Card 1/2

ACCESSION NR: AP4024686

S/0103/64/025/002/0250/0261

AUTHOR: Smirnov, N. A. (Leningrad); Smolov, V. B. (Leningrad)

TITLE: Method of synthesizing integro-differential voltage-code-type coding converters

SOURCE: Avtomatika i telemekhanika, v. 25, no. 2, 1964, 250-261

TOPIC TAGS: automatic control, coding converter, analog digital converter, integrodifferential converter, voltage to code converter, digital automatic control

ABSTRACT: The authors' method is based on the fact that a "follow-up"-type coding converter with a reversible counter in the digital-code-selection circuit may be regarded as a closed-loop dynamic system. The system is treated as continuous because its quantization intervals are assumed to be small (h-f sync pulses). The converter transfer function (input voltage to output code) is realized by introducing dynamic integro-differential sections into the forward and feedback circuits. Passive RC fourpoles, twopoles, or digital filters or their combinations in the sampled-data lines of the converter may be used as the above sections in

Card 1/2

L 56510-65 EWT(d)/EED-2/ENP(1) Pq-l/Pg-l/Pk-l/Pl-l IJP(c) BB/GG

ACCESSION NR: AP5016773

UR/0286/65/000/010/0087/0088 44  
681.142.621

AUTHOR: Grushvitskiy, R. I.; Smirnov, N. A.; Smolov, V. B.; Shmidt, V. K.;  
Fomichev, V. S. 43  
B

TITLE. A precision voltage-to-code converter. 16C Class 42, No. 171182

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 87-88

TOPIC TAGS: voltage to code converter, computer component, computer technology,  
voltage divider

ABSTRACT: This Author's Certificate introduces a precision voltage-to-code converter constructed according to the method of sequential comparison with a single standard, subtraction, multiplication by two, and storage of the result. Conversion accuracy is improved by making the storage circuit in the form of two digital counting systems with balancing by digital places. The weight of each least significant digit in the counting systems is greater than the weight of the steps of the preceding least significant digit. The output of one of the counting systems is connected through a pulsed voltage divider to two comparison circuits for voltage

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ACCESSION NR: AP5016773

multiplication. The input voltage is fed to the second input of one comparison circuit while the second input of the other comparison circuit is connected to the output of the second digital counting system. This output is connected to the first input of a third comparison circuit, and to a fourth and fifth comparison circuit through a standard source for subtraction of the reference voltage. The second input of the third comparison circuit is connected to the output of the first counting system. The second input of the fourth and fifth comparison circuits are connected respectively to the input voltage and to the output of the first digital counting system.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova  
(Lenina) (Leningrad Electrical Engineering Institute)

SUBMITTED: 16Dec63

ENCL: 01

SUB CODE: DP

NO REF SOV: 000

OTHER: 000

Card 2/3

L 56510-65

ACCESSION NR: AP5016773

ENCLOSURE: 01

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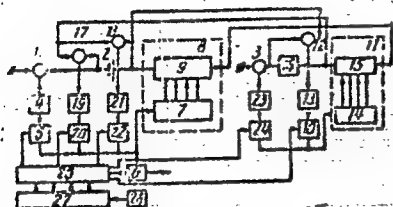


Fig. 1. 1, 3, 12, 7 and 18--comparison circuits; 2--standard source; 4, 13, 19, 21 and 23--amplifiers; 5, 6, 10, 20, 22 and 24--logic circuits; 7 and 14--control circuits for the digital counting systems; 8 and 11--digital counting systems; 9 and 15--code-to-voltage converters; 16--pulsed voltage divider; 25--control unit; 26--pulse generator; 27--synchronization unit

gah  
card 3/3

YATSUNSKAYA, O.I.; CHEPNIKEVICH, L.I.; SMIRNOV, N.A.; GUTNOV, R.B.;  
ZUBREV, O.N.

Production of crumbling open-hearth furnace slag. Metallurg  
10 no.5:20-21 My '65. (MIRA 18:6)

1. Metallurgicheskiy zavod "Serp i molot".

MOLCHANOV, R.S.; SMIRNOV, N.A.; OLEKHNOVICH, K.A., kandidat tekhnicheskikh nauk, redaktor; KAPLAN, M.Ya., redaktor; PUL'KINA, Ye.A., tekhnicheskii redaktor

[Innovations in the production of reinforced concrete structures and parts: practice of builders in Leningrad] Novoe v proizvodstve zhelezobetonnykh konstruktsii i detalei; iz opyta stroitel'nykh organizatsii Leningrada. Leningrad, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 81 p. (MLRA 9:2)  
(Reinforced concrete)



SMIRNOV, N.A.

Large brick-blocks for walls. Sbor. nauch. trudov LISI no. 24:46-64  
'56. (MIRA 15:3)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningrad-  
skogo inzhenerno-stroitel'nogo instituta.  
(Brick walls)

MAMONTOV, Igor' Ivanovich,; KISELEV, Mikhail Vital'yevich,; SMIRNOV, N.A.,  
inzh., nauchnyy red.; ROTENBERG, A.S., red. izd-va,; PUL'KINA,  
Ye.A., tekhn. red.

[Efficient methods for making reinforced concrete construction  
elements; practices in Leningrad] Ratsional'nye metody izgotovleniia  
zhelezobetonnykh konstrukttsii; iz opyta Leningrada. Leningrad, Gos.  
izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1958. 81 p.  
(MIRA 11:11)

(Precast concrete)

SMIRNOV, Nikolay Aleksandrovich; BUDNIKOV, M.S., prof., doktor tekhn.  
nauk, retsenzent; KOZLOVSKIY, V.M., inzh., nauchnyy red.;  
KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Technology of building] Tekhnologiya stroitel'nogo proiz-  
vodstva. Leningrad, Gos.izd-vo lit-ry po stroit., arkhitekt. i  
stroit.materialam, 1959. 376 p. (MIRA 13:3)

1. Daystvitel'nyy chlen Akademii stroitel'stva i arkhitektury  
SSSR (for Budnikov).  
(Construction industry)

SMIRNOV, Nikolay Aleksandrovich; KOMAROVSKIY, M.F., inzh., red.;  
FREGER, D.P., izd.red.; BELOGUROVA, I.A., tekhn.red.

[Basic trends of further technical progress in construction in  
the 1959-1965 seven-year plan] Osnovnye napravleniia dal'neishego  
tekhnicheskogo progressa v stroitel'stve na predstoiashchee semi-  
letie 1959-1965 gg.; stenogramma lektsii. Leningrad, 1960. 24 p.  
(MIRA 14:6)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo  
inzhenerno-stroitel'nogo instituta (for Smirnov).  
(Construction industry)

GAPEYEV, Vladimir Nikolayevich; SMIRNOV, N.A., red.; FREGER, D.P., red. izd-  
va; BELOGUROVA, I.A., tekhn. red.

[Forms and methods of spreading information on safety measures in  
construction] Formy i metody propagandy tekhniki bezopasnosti na  
stroitel'stve. Travmatizm i ego uchet. Pod obshchei red. N.A.Smir-  
nova. Leningrad, Leningradsk'i Dom nauchno-tekhn. propagandy, 1960.  
42 p. (Bibliotekha stroitel'ia po tekhnike bezopasnosti no.2)

(MIRA 14:10)

(Building---Safety measures) (Building---Accidents)

MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Overall mechanization and automation at reinforced concrete products plants in Leningrad] Kompleksnaia mekhanizatsiia i avtomatizatsiia na zavodakh zhelezobetonnykh izdelii g. Leningrada. Pod obshchei red. N.A.Smirkova. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1961. 20 p. (Bibliotekha stroitel'stva po mekhanizatsii i avtomatizatsii stroitel'stva, no.4) (MIRA 15:8)

(Leningrad--Concrete plants)

SVYATSKIY, Pavel Stanislavovich, inzh.; YARMOLOVICH, Konstantin Yulianovich, inzh.; SMIRNOV, N.A., prof., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Methods of overall mechanization of the basic types of finishing work] Puti kompleksnoi mekhanizatsii osnovnykh vidov otdelochnykh rabot. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 20 p. (Bibliotekha stroitel'stva po mekhanizatsii i avtomatizatsii stroitel'stva, no.14) (MIRA 15:7)

(Building---Details)

KRYLOV, Nikolay Alekseyevich, kand. tekhn. nauk; SMIRNOV, N.A.,  
prof., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A.,  
tekhn. red.

[Electronic-acoustical, magnetic, and radio methods for  
quality control of materials, elements, and structures]  
Elektronno-akusticheskie, radiometricheskie i magnitnye  
metody kontrolya kachestva materialov, konstrukttsii i  
sooruzhenii. Pod obshchei red. N.A.Smirnova. Leningrad,  
Leningr. dom nauchno-tekhn. propagandy, 1961. 21 p.  
(Bibliotekhka stroitel'stva po mekhanizatsii i avtomatiza-  
tsii stroitel'stva, no.8) (MIRA 16:5)  
(Building--Quality control)



MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; VASIL'YEV, Yu.A., red.izd-va; GVIRTS, V.L., tekhn. red.

[Over-all mechanization of the production of hollow cylindrical reinforced concrete products; from the experience of "Barrikada" Factory] Kompleksnaia mekhanizatsiia proizvodstva pustotnykh tsilindricheskikh zhelezobetonnykh izdelii; opyt zavoda "Barrikada." Pod obshchei red. N.A.Smirkova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 25 p. (Bibliotekha stroitel'ia po mekhanizatsii i avtomatizatsii stroitel'stva, no.5) (MIRA 15:8)  
(Pipe, Concrete)

LAKTYUSHKIN, Aleksey Aleksandrovich; YAKOVLEV, Petr Sergeyevich;  
SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V., inzh., red.;  
FOMICHEV, A.G., red. izd-va; GVIRTIS, V.L., tekhn. red.

[Overall mechanization of sanitary engineering operations]  
Kompleksnaia mekhanizatsiia proizvodstva sanitarno-  
tekhnicheskikh rabot. Pod obshchei red. N.A.Smirnova. Le-  
ningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 28 p.  
(Bibliotekhka stroitel'ia po mekhanizatsii i avtomatizatsii  
stroitel'stva, no.12) (MIRA 15:8)  
(Sanitary engineering)

NEKRICH, Ye.I.; ARANE, M.Yu.; SMIRNOV, N.A., prof., red.; SHILLING,  
V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Overall mechanization and automation in housing construction  
combines] Kompleksnaia mekhanizatsiia i avtomatizatsiia na  
domostroitel'nykh kombinatakh. Pod obshchei red. N.A.Smirnova.  
Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1961. 34 p.  
(Bibliotekha stroitel'stva po mekhanizatsii i avtomatizatsii  
stroitel'stva, no.3) (MIRA 15:8)  
(Leningrad--Precast concrete) (Apartment houses)  
(Automation)

PODBORSKIY, Leonid Yermolayevich, inzh.; SMIRNOV, N.A., prof., red.;  
FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Mechanization of the unloading and transportation of cement]  
Mekhanizatsiia razgruzki i transportirovaniia tsementa. Pod  
obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-  
tekhn. propagandy, 1961. 36 p. (Bibliotekhka stroitel'ia po  
mekhanizatsii i avtomatizatsii stroitel'stva, no.7)

(MIRA 15:8)

(Cement—Transportation) (Loading and unloading)

GODES, Emmanuil Grigor'yevich; SMIRNOV, N.A., red.; SHILLING, V.A.,  
red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Overall mechanization of preparatory operations in the building development of residential blocks] Kompleksnaia mekhanizatsiia rabot nulevogo tsikla pri zastroike zhilykh kvartalov. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1961. 37 p. (Bibliotekha stroitel'stva, po kompleksnoi mekhanizatsii i avtomatizatsii stroitel'stva, no.10)

(MIRA 15:8)

(Earthwork) (Foundations)

MAKAROV, Vladimir Ivanovich, kand. tekhn. nauk, dotsent; SMIRNOV,  
N.A., prof., red.; FREGER, D.P., red.izd-va; GVITS, V.L.,  
-tekhn. red.

[Overall mechanization and automation at concrete and  
mortar plants] Kompleksnaia mekhanizatsiia i avtomatizatsiia  
na zovodakh betonov i rastvorov. Pod obshchei red. N.A.  
Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy,  
1961. 43 p. (Bibliotekhka stroitel'stva po mekhanizatsii i  
avtomatizatsii stroitel'stva, no.2) (MIRA 15:8)  
(Concrete plants) (Mortar) (Automation)

SMIRNOV, Nikolay Aleksandrovich, prof.; LEVCHENKO, Ya.V., inzh.,  
red.; FREGER, D.P., red. izd-va; GVIRTIS, V.L., tekhn. red.

[Basic tendencies in the development of the mechanization  
and automation of construction] Osnovnye napravleniia raz-  
vitiia mekhanizatsii i avtomatizatsii stroitel'stva. Le-  
ningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 46 p.  
(MIRA 15:8)

1. Zaveduyushchiiy kafedroy stroitel'nogo proizvodstva Lenin-  
gradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).  
(Construction equipment) (Automation)

SMIRNOV, N.A., dots., otv. red.

[The technology of precast structural elements and of building]  
Tekhnologiya sbornnykh stroitel'nykh konstruktsii i stroitel'-  
nogo proizvodstva; doklady na XIX nauchnoi konferentsii. Lenin-  
grad, 1961. 54 p. (MIRA 15:6)

1. Leningrad. Inzhenerno-stroitel'nyy institut. 2. Zaveduyushchiy  
kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-  
stroitel'nogo instituta (for Smirnov).  
(Precast concrete construction)



SMIRNOV, N.A., prof.

[Drawing; reports of the 20th scientific conference] Grafika;  
doklady XX nauchnoi konferentsii. Leningrad, 1962. 29 p.  
(MIRA 16:1)

1. Leningrad. Inzhenerno-stroitel'nyy institut. Nauchnaya kon-  
ferentsiya.

(Mechanical drawing)

TUZOV, Mikhail Sergeyevich, inzh.; SMIRNOV, N.A., prof., red.;  
FREGER, D.P., red. izd-va; GVIRIS, V.L., tekhn. red.

[Safety engineering in carrying out preparatory operations] Tekhnika bezopasnosti pri proizvodstve rabot nulevogo tsikla. Leningrad, 1962. 30 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Bibliotekha stroitel'ia po tekhnike bezopasnosti v stroitel'stve, no. 6)  
(MIRA 16:8)

(Building--Safety measures)

MIKHAL'CHENKO, Mikhail Grigor'yevich, inzh.; OKUNEV, Nikolay  
Aleksandrovich, inzh.; KHUTORIAN, Naum Benitsianovich, inzh.;  
SMIRNOV, N.A., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA,  
I.A., tekhn. red.

[Comprehensive mechanization and automation of plants manufacturing building materials of rock, gravel, and sand] Kompleksnaia mekhanizatsiia i avtomatizatsiia na predpriatiakh nerudnykh stroitel'nykh materialov; stenogramma lektsii. Leningrad, 1962.  
30 p. (MIRA 15:3)

(Automation) (Building materials)

BAL'MAKOVA, Irina Karlovna, inzh.; SMIRNOV, N.A., red.; GRIGOR'YEVA,  
I.S., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Organization of transportation in the operational production  
lines of housing construction combines] Organizatsiia raboty  
transporta na tekhnologicheskikh liniakh domostroitel'nykh  
kombinatsiy. Leningrad, 1962. 37 p. (Leningradskii dom nauchno-  
tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya:  
Stroitel'naya promyshlennost', no.8) (MIRA 15:9)  
(Building) (Transportation)

AISTOV, N.N., prof., doktor tekhn. nauk; VASIL'YEV, B.D., prof., doktor tekhn. nauk; IVANOV, V.F., prof., doktor tekhn. nauk; SAKHNOVSKIY, K.V., prof., doktor tekhn. nauk; SMIRNOV, N.A., prof.; ORLOV, A.I., dots., kand. tekhn. nauk; SHIFRIN, S.M., prof., doktor tekhn. nauk; Primali uchastiye: AKIMOVA, L.D., kand. tekhn. nauk, dots.; SPIRIDONOVA, O.M., kand. tekhn. nauk, dots.; MAKUKHIN, V.L., nauchnyy red.; STAROVOYTOV, I.F., inzh., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[The history of building practices] Istoriia stroitel'noi tekhniki. [By] N.N.Aistov i dr. Pod obshchei red. V.F.Ivanova. Leningrad, Gosstroizdat, 1962. 560 p. (MIRA 15:12)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Vasil'yev, Sakhnovskiy). (Building)

GAPEYEV, Vladimir Nikolayevich, inzh.; SMIRNOV, N.A., prof., red.;  
PAPIYEV, V.R., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Problems of accident prevention in winter construction and  
assembly] Voprosy tekhniki bezopasnosti pri proizvodstve  
stroitel'no-montazhnykh rabot v zimnee vremia.  
Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom  
nauchno-tekhn. propagandy, 1962. 14 p. (Bibliotekha stroi-  
telia po tekhnike bezopasnosti, no.8) (MIRA 16:3)  
(Building—Cold weather conditions)

NIKITIN, Gennadiy Mikhaylovich, kand. tekhn. nauk; SMIRNOV, N.A.,  
prof., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A.,  
tekhn. red.

[Safety measures in operating hoisting and conveying machines  
in construction] Tekhnika bezopasnosti pri ekspluatatsii pod"-  
emno-transportnykh mashin v stroitel'stve. Pod obshchei red.  
N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propa-  
gandy, 1962. 33 p. (Bibliotekhka stroitel'ia po tekhnike bez-  
opasnosti, no.5) (MIRA 16:12)

(Hoisting machinery—Safety measures)

(Conveying machinery—Safety measures)

SMIRNOV, Nikolay Aleksandrovich, prof.; KRYLOV, N.A., red.; FREGER,  
D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Objectives and prospects of the development of the construction industry in the U.S.S.R.] Zadachi i perspektivy razvitiia stroitel'noi industrii SSSR; stenogramma lektsii. Leningrad, 1963. 17 p. (MIRA 16:12)

(Construction industry)



SMIRNOV, Nikolay Aleksaandrovich, prof.; PANIVAN, P.S., red.;  
GRIGOR'YEVA, I.S., red.izd-va; BELOGUROVA, I.A., tekhn.  
red.

[Safety engineering in working at construction sites]  
Tekhnika bezopasnosti pri proizvodstve rabot na stroitel'-  
noi ploschadke. Leningrad, Leningr. dom nauchno-tekhn.  
propagandy. 1963. 52 p. (Bibliotekha stroitel'ia po  
tekhnike bezopasnosti, no.9) (MIRA 16:6)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Lenin-  
gradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).  
(Building--Safety measures)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV,  
V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S. [deceased];  
MELAMEDOV, N.K.; SERGEYEV, V.V.: Prinimali uchastiye:  
AMMOV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk,  
dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A.,  
prof., red.; DNEPROVA, N.N., red. izd-va; PUL'KINA, Ye.A.,  
tekhn. red.

[Technology of building] Tekhnologiya stroitel'nogo proiz-  
vodstva. [By] N.A. Smirnov i dr. Leningrad, Gosstroizdat,  
1963. 435 p. (MIRA 17:2)

BLOKHIN, Boris Nikolayevich; SMIRNOV, N.A., prof., retsenzent;  
 SPIRIDONOVA, O.M., dots., kand. tekhn.nauk, retsenzent;  
 CHERNOV, T.P., prof., retsenzent; PREDTECHENSKIY, V.M.,  
 prof., doktor tekhn. nauk, retsenzent; RUFFEL', N.A., dots.,  
 retsenzent; ZAYTSEV, A.G., prof., retsenzent; DROZDOV, A.G., inzh.;  
 GALITSKIY, V.N., inzh., retsenzent; ZHELUDKOV, V.I., inzh.,  
 nauchn. red.; LYTKINA, L.S., red.; DASIMOV, D.Ya., tekhn. red.

[Technology of the construction industry] Tekhnologiya stroi-  
 tel'nogo proizvodstva. Moskva, Gosstroizdat, 1963. 263 p.  
 (MIRA 17:1)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Lenin-  
 gradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
2. Kafedra stroitel'nogo proizvodstva Leningradskogo inzhener-  
 nerno-stroitel'nogo instituta (for Spiridonova).
3. Zavedu-  
 yushchiy kafedroy stroitel'nogo proizvodstva Moskovskogo  
 inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva  
 (for Chernov).
4. Moskovskiy inzhenerno-stroitel'nyy institut  
 imeni V.V.Kuybysheva (for Predtechenskiy, Ruffel').
5. Zave-  
 duyushchiy kafedroy stroitel'nykh materialov Moskovskogo ar-  
 khitekturnogo instituta (for Zaytsev).
6. Glavnyy inzhener  
 Moskovskogo arkhitekturno-planirovochnogo upravleniya (for  
 Drozdov).
7. Direktor Moskovskogo domostroitel'nogo kombi-  
 nata No.1 (for Galitskiy).

BRONNIKOV, Petr Ivanovich; SMIRNOV, N.A., prof., red.

[Experimental construction of residential and public buildings made from three-dimensional elements] Eksperimental'noe stroitel'stvo zhilykh i grazhdanskikh zdaniy iz ob'emnykh elementov. Leningrad, 1964. 25 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Stroitel'nye materialy i konstruktsii, no.1) (MIRA 17:7)

BAD'IN, Gennadiy Mikhaylovich; SARGISOV, N.A., red.

[Equipment and measuring instruments for the dynamic testing of piling; work experience of the Leningrad Institute of Construction Engineers in cooperation with Trust No.101 of the Main Administration for Construction of Leningrad]  
Oborudovanie i izmeritel'naya apparatura dlia dinamicheskikh ispytaniy svai; iz opyta raboty LISI v sdruzhestve s trestom No.101 Glavleningradstroia. Leningrad, 1964. 20 p.  
(MIRA 17:12)

VERIZHNIKOV, Sergey Mikhaylovich, kand. tekhn. nauk; SMIRNOV,  
N.A., prof., nauchn. red.; ROTENBERG, A.S., red.

[Housing construction enterprises; their present state  
and the prospects for their development] Domostroitel'-  
nye predpriiatiia; sostoianie i perspektivy razvitiia.  
Leningrad. Stroiizdat, 1964. 280 p. (MIRA 18:1)

SMIRNOV. N. A.

Eucommia

Growing eucommia at the Novorossiysk forestry station. Leskhoz. 5 no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

1. SMIRNOV, N. A.
2. USSR (600)
4. Community Forests
7. Attention to collective farm wood lots.  
Les khoz. 5. No. 10. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.



SMIRNOV, N. A.

"The Growth and Development of the Seedlings of Scrub Wood Varieties in Relation to the Action of Lower Temperature on the Seeds." Cand Agr Sci, Voronezh Forestry Inst, Min Higher Education USSR, Voronezh, 1955. (KL, No 12, Mar 55)

SO: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defined at USSR Higher Educational Institutions (15)

USSR / Forestry. Forest Cultures.

K

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82229

Author : Smirnov, N. A.

Inst : Not given

Title : An Experiment in Deep Planting Poplar Cuttings

Orig Pub : Lesn. kh-vo, 1958, No 3, 83-84

Abstract : No abstract given

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31

SMIRNOV, N. A.

USSR/Agriculture      Fertilizer

Card                : 1/1

Authors            : Smirnov, N. A.

Title               : Fertilizing vegetable cultures with carbon dioxide in greenhouses  
and hotbeds

Periodical        : Priroda, 43/7, 100 - 102, July 1954

Abstract          : The effects of introducing CO<sub>2</sub> into the soil are cited with  
figures showing the percentages of increase in production for  
various vegetables. The author finds that CO<sub>2</sub> offsets the lack  
of light and heat. Directions are given as to the preparation of  
the CO<sub>2</sub> gas and its application. Table; illustrations.

Institution       : ....

Submitted        : ....

SMIRNOV, N.A.

Experiment in winter raising of tomatoes. Agrobiologia no.2:  
104-106 Mr-Apr '57. (MLRA 10:5)

1. Chelyabinskij teplichno-parnikovyy kombinat.  
(Tomatoes)

SMIRNOV, N.A.

Vegetable gardening in humid subtropics. Priroda 46 no.3:95-98  
Mr '57. (MIRA 10:3)

1. Topichno-parnikovyy kombinat "Ismaylovo" (Moskva).  
(Vegetable gardening)

AUTHOR: Smirnov, N.A. SOV-26-58-8-24/51

TITLE: The Culture of Early Vegetables (Kul'tura rannikh ovoshchey)

PERIODICAL: Priroda, 1958, Nr 8, pp 97-100 (USSR)

ABSTRACT: The fruit and vegetable combine "Marfino" grows vegetables on a 42,000 m<sup>3</sup> farm. Heated hotbeds occupy an area of 3,000 m<sup>2</sup>. The yearly production is 20,000 centners. Vegetables are preserved mainly in ice storehouses. The combine delivers greenhouse and hotbed products, mainly cucumbers, to Moscow. Research work is also conducted. In the culture of cucumbers, 18 different hybrids have been raised. The mushroom crop is harvested during a period when other vegetables are scarce and the space in the greenhouses cannot fully used. Special attention is paid to fertilizers. The magnesium content in the soil is considered to be too low. Fertilization with boron should also be increased. It has been shown by experience that the optimum of the temperature during winter is dependent on the available light. It is higher during sunny days than during cloudy weather.

Card 1/2      There are 3 photos.

SMIRNOV, Nikolay Alekseyevich; LEONOV, S., red.; SHLYK, M., tekhn.  
red.

[Garden under glass; practices in growing vegetables in green-  
houses] Ogorod pod steklom; opyt vyrashchivaniia ovoshchei v  
teplitsakh. Moskva, Mosk. rabochii, 1963. 159 p.  
(MIRA 16:5)

(Vegetable gardening) (Greenhouse management)

SMIRNOV, N.A.

Let's introduce a practical trend into the school courses of biology.  
Biol. v shkole no.4:46-47 J1-Ag '63. (MIRA 16:9)

1. Turovskaya vos'miletnyaya shkola, Ryazhskiy rayon Ryazanskoy  
oblasti.

(Biology--Study and teaching)



AUTHORS: Zlatoverkhovnikov, L. F., Candidate of SOV/154-58-4-14/18  
Technical Sciences, Smirnov, N. A., Candidate of Technical  
Sciences

TITLE: Records of the General Deformations of Hydraulic Port  
Installations in Sea Ports (Nablyudeniya za obshchimi  
deformatsiyami gidrotekhnicheskikh sooruzheniy v morskikh  
portakh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodesiya i aero-  
fotos"yemka, 1958, Nr 4, pp 137 - 142 (USSR)

ABSTRACT: Port installation structures begin to deform even during  
construction. Hence it is necessary to start systematic  
surveying observations during this period. As early  
as 1947 the Soyuzmorproyekt of the Ministry of ~~Merchant~~  
~~Marine~~ of the USSR drafted the first regulations  
and instructions concerning surveying records, employing  
the experience collected in the Chernomorproyekt. In  
1949 the first surveying observations of the hydraulic  
port installations of Leningrad, Tuapse ( and of other  
ports) were started. Later on, such record work was

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Records of the General Deformations of Hydraulic Port  
Installations in Sea Ports

SOV/154-58-4-14/18

extended to the hydraulic port installations of the ports of Poti, Novorossiysk, Batum, Taganrog, Zhdanov, and Odessa. In 1951 the instructions for the planned surveying records of the settling of hydraulic port installations were published. The instruction was later on revised on the basis of the experience collected. The difficulties encountered in direct measurements **require** a thorough study of the application of optical measuring methods. The Odessa Research Station of the TsNII has already started an investigation of the general movements of the pier Nr 10 in the port of Odessa. The inclinometer was designed by Engineer G.D.Shtromberg. The surveying observations showed that the recording of the general movements of port installations must be started immediately after construction has been completed. As the further recording of the movements falls to the competence of the respective port authorities, but is still carried out under the methodical supervision of the Research Station of the TsNII, new economical measuring instruments will have to be constructed. These

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Records of the General Deformations of Hydraulic Port      SOV/154-58-4-14/18  
Installations in Sea Ports

instruments should simplify surveying work but nevertheless maintain or even increase the accuracy of the measurements. Such surveying records of the deformations of hydraulic port installations under natural conditions are also of great practical importance in the efficient operation of sea ports. They may lead to a perfection of planning methods of hydraulic port installation constructions.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut Ministerstva Morskogo Flota SSSR (Central Scientific Research Institute of the USSR Ministry of Merchant Marine)

Card 3/4

SMIRNOV, Nikolay Andreyevich, kand. tekhn. nauk; ZLATOVERKHOVNIKOV,  
Leonid Fedorovich, kand. tekhn. nauk; SKOBELING, L.V., red.;  
KLAPTSOVA, T.F., tekhn. red.

[Improving the technical operation of hydraulic structures in  
harbors]Uluchshenie tekhnicheskoi ekspluatatsii portovykh  
gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo "Morskoi tran-  
sport," 1962. 90 p. (MIRA 15:9)  
(Hydraulic structure--Maintenance and repair)  
(Marine fouling)